

STIC

05/09/2005..

=> d his

(FILE 'HOME' ENTERED AT 07:57:37 ON 09 MAY 2005)

FILE 'REGISTRY' ENTERED AT 07:59:07 ON 09 MAY 2005

L1 1 S KISVSYDNFALVDYLVFERTKSDTD/SQSP  
L2 3 S [FKCDE'ORN'].S.S..NF...[DCEFK'ORN']Y.V.E...S..D/SQSP  
L3 2 S L2 NOT L1

FILE 'HCAPLUS' ENTERED AT 08:02:16 ON 09 MAY 2005

L4 1 S L1  
L5 1 S L3  
L6 1 S L4 OR L5

=> fil reg

FILE REGISTRY: ENTERED AT 08:02:48 ON 09 MAY 2005  
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 COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 8 MAY 2005 HIGHEST RN 850006-33-6  
 DICTIONARY FILE UPDATES: 8 MAY 2005 HIGHEST RN 850006-33-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> que 11

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON KISVSYDNFALVDYLVFERTKSDTD/SQS  
 P

L> seq Att. A (seq ID 3)

=> d que 13

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON KISVSYDNFALVDYLVFERTKSDTD/SQS  
 P

L2 3 SEA FILE=REGISTRY ABB=ON PLU=ON [FKCDE'ORN'].S.S..NF...[DCEFK  
 'ORN']Y.V.E...S..D/SQSP

L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON L2 NOT L1

L> seq ATT. B

=> d sqide3 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 216485-06-2 REGISTRY  
 CN L-Aspartic acid, L-lysyl-L-isoleucyl-L-seryl-L-valyl-L-seryl-L-tyrosyl-L-  
 α-aspartyl-L-asparaginyl-L-phenylalanyl-L-alanyl-L-leucyl-L-valyl-L-  
 α-aspartyl-D-tyrosyl-L-leucyl-L-valyl-L-phenylalanyl-L-α-  
 glutamyl-L-arginyl-L-threonyl-L-lysyl-L-seryl-L-α-aspartyl-L-  
 threonyl-, (13-16)-lactam (9CI) (CA INDEX NAME)  
 FS PROTEIN SEQUENCE; STEREOSEARCH  
 SQL 25

NTE

type.	-----	location	-----	description
bridge	Lys-1	-	Asp-13	lactam
stereo	Tyr-14	-		D

SEQ3 1 Lys-Ile-Ser-Val-Ser-Tyr-Asp-Asn-Phe-Ala-  
 === === === === === === === === ===  
 11 Leu-Val-Asp-Tyr-Leu-Val-Phe-Glu-Arg-Thr-  
 === === === === === === === === ===  
 21 Lys-Ser-Asp-Thr-Asp  
 === === === === ===

HITS AT: 1-25

MF C132 H199 N31 O43

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Cplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.

PAGE 1-B

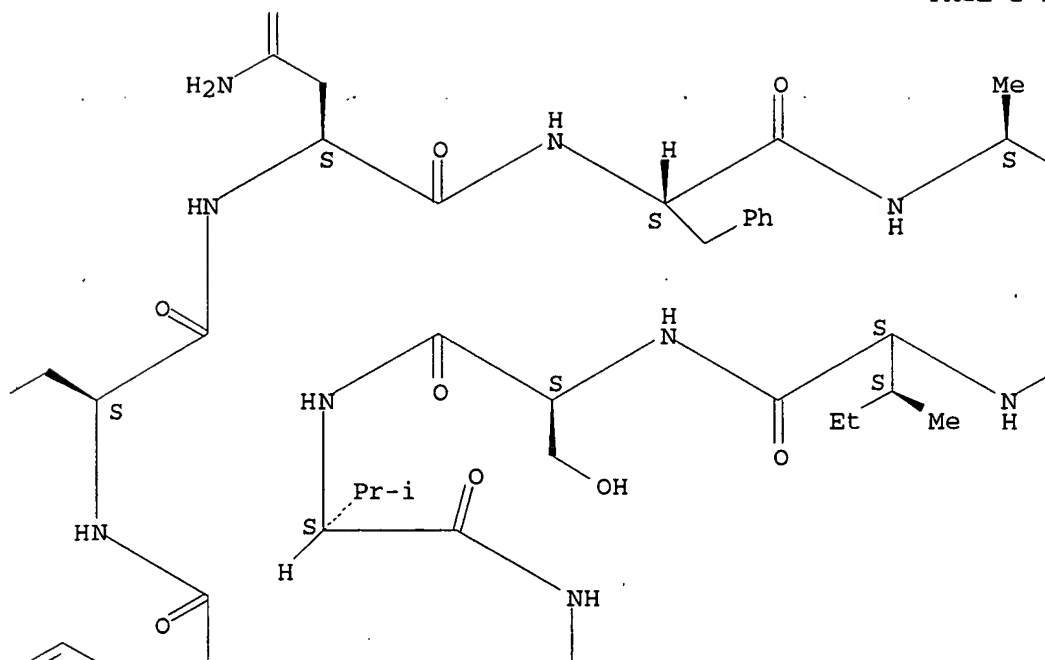
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PAGE 2-A

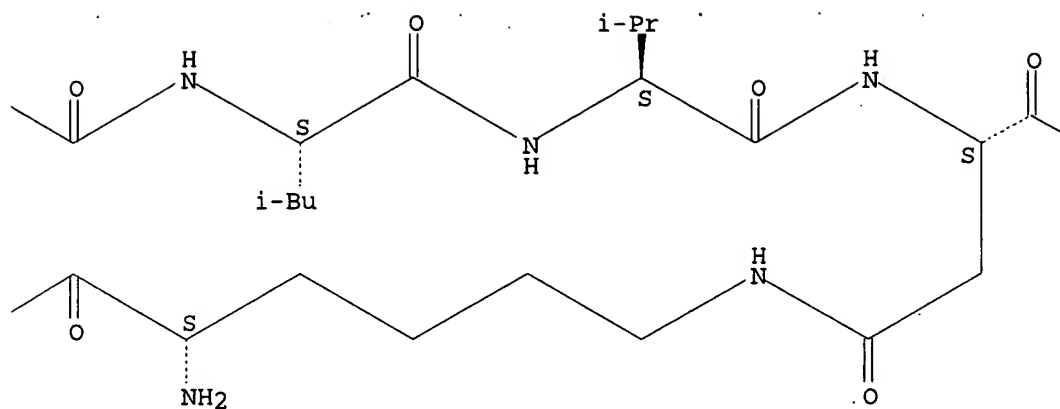
HO<sub>2</sub>C

HO

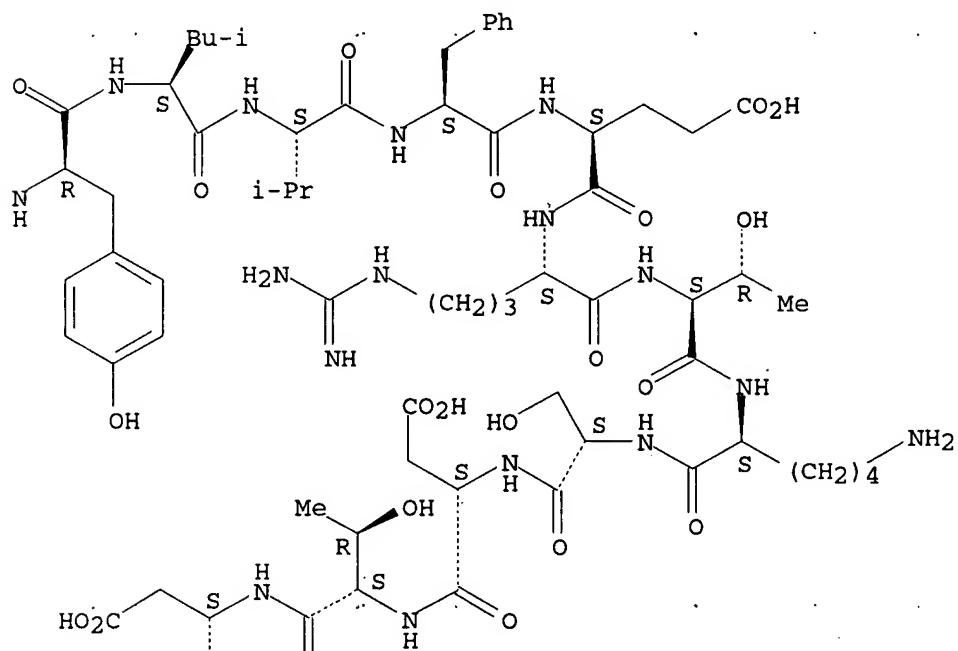
PAGE 2-B



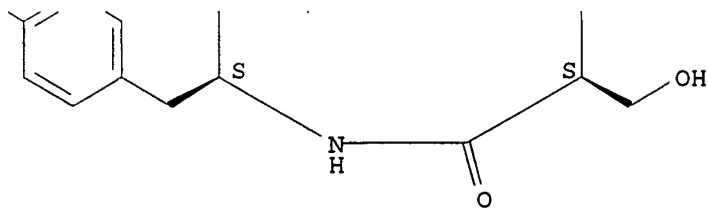
PAGE 2-C



PAGE 2-D



PAGE 3-B



CO<sub>2</sub>H O

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d sqide3 13 1-2

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 216485-10-8 REGISTRY  
CN L-Aspartic acid, L-lysyl-L-isoleucyl-L-seryl-L-valyl-L-seryl-L-tyrosyl-L-  
α-glutamyl-L-asparaginyl-L-phenylalanyl-L-alanyl-L-leucyl-L-valyl-L-  
α-aspartyl-D-tyrosyl-L-leucyl-L-valyl-L-phenylalanyl-L-α-  
glutamyl-L-lysyl-L-threonyl-L-lysyl-L-seryl-L-α-aspartyl-L-threonyl-  
, (7-19)-lactam (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
SQL 25  
NTE

type	location	description
bridge	Glu-7 - Lys-19	lactam
stereo	Tyr-14 -	D

SEQ3 1 Lys-Ile-Ser-Val-Ser-Tyr-Glu-Asn-Phe-Ala-  
===  
11 Leu-Val-Asp-Tyr-Leu-Val-Phe-Glu-Lys-Thr-  
===  
21 Lys-Ser-Asp-Thr-Asp  
===

HITS AT: 1-25

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF C133 H201 N29 O43  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 216485-08-4 REGISTRY  
CN L-Aspartic acid, L-lysyl-L-isoleucyl-L-seryl-L-valyl-L-seryl-L-tyrosyl-L-  
α-glutamyl-L-asparaginyl-L-phenylalanyl-L-alanyl-L-leucyl-L-valyl-L-  
α-aspartyl-D-tyrosyl-L-leucyl-L-valyl-L-phenylalanyl-L-α-  
glutamyl-L-lysyl-L-threonyl-L-lysyl-L-seryl-L-α-aspartyl-L-threonyl-  
, (13-16), (7-19)-dilactam (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
SQL 25  
NTE

type	-----	location	-----	description
bridge	Lys-1	-	Asp-13	lactam
bridge	Glu-7	-	Lys-19	lactam
stereo	Tyr-14		-	D

SEQ3      1 Lys-Ile-Ser-Val-Ser-Tyr-Glu-Asn-Phe-Ala-  
              === === === === === === === === ===  
          11 Leu-Val-Asp-Tyr-Leu-Val-Phe-Glu-Lys-Thr-  
              === === === === === === === === ===  
          21 Lys-Ser-Asp-Thr-Asp  
              === === === ===

HITS AT: 1-25

\*\*RELATED SEOUENCES AVAILABLE WITH SEOLINK\*\*

MF C133 H199 N29 O42

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> fil hcaplus
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FILE 'HCAPLUS' ENTERED AT 08:03:31 ON 09 MAY 2005

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FILE COVERS 1907 - 9 May 2005 VOL 142 ISS 20

FILE LAST UPDATED: 8 May 2005 (20050508/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d que 16

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON KISVSYDNFALVDYLVFERTKSDTD/SQS  
P

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L2          3 SEA FILE=REGISTRY ABB=ON  PLU=ON  [FKCDE'ORN'] .S.S..NF...[DCEFK
            'ORN']Y.V.E...S..D/SOSP
```

L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON L2 NOT L1  
 L4 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L1  
 L5 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L6 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 OR L5

=> d .ca 16

L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:806680 HCAPLUS

DOCUMENT NUMBER: 130:25353

TITLE: Synthesis of thrombin-inhibiting peptide for use in treating blood-clotting disorders.

INVENTOR(S): Noeske-Jungblut, Christiane; Egner, Ursula; Donner, Peter; Schleuning, Wolf-dieter; Bode, Wolfram; Prior, Pablo Fuentes ✓

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855506	A2	19981210	WO 1998-EP3356	19980605
WO 9855506	A3	19990304		
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19724791	A1	19981210	DE 1997-19724791	19970606
EP 983301	A2	20000308	EP 1998-932121	19980605
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002506432	T2	20020226	JP 1999-501526	19980605
US 2004147442	A1	20040729	US 2003-694847	20031029
PRIORITY APPLN. INFO.: DE 1997-19724791 A 19970606				
WO 1998-EP3356 W 19980605				
US 2000-445214 B3 20000503				

OTHER SOURCE(S): MARPAT 130:25353

ED Entered STN: 24 Dec 1998

GI

Y1-X1-Ser-X2-Ser-X3-X4-Asn-Phe-X5-X6-X7-  
 Y2-D-Tyr-X8-Val-X9-Glu-X10-X11-X12-Ser-  
 X13-X14-Asp

I

AB The invention relates to peptides [(I); Y1, Y2 = Phe, Lys, Cys, Orn, Asp, Glu; X1-14 = random amino acid, which may have a sidechain which can bond with another sidechain forming a cyclic peptide], and to the use of said peptides in the production of medicaments. The invention may be used in treatment of diseases such as thrombosis, unstable angina, arteriosclerosis, recurrence of occlusion of blood vessels following PTCA/PTA or thrombolysis during treatment of heart infarct or prevention of coagulation during hemodialysis. Thus, using Merrifield solid-phase



synthesis techniques, I(Y1, X12 = Lys; Y2, X4, X13 = Asp; X1 = Ile; X2, X7 = Val; X3 = Tyr; X5 = Ala; X6, X8 = Leu; X9 = Phe; X10 = Arg; X11, X14 = Thr) was synthesized, cyclized (Lys 1→Asp 13), and deprotected to give (II). II was tested in an Activated Partial Thromboplastin-Time (APTT) coagulation test, compared with Triabin or Hrudin as coagulation inhibitors (no data).

IC ICM C07K014-00

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1

IT 216485-06-2 216485-08-4 216485-10-8

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(synthesis of thrombin-inhibiting peptide for use in treating  
blood-clotting disorders)

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